

HAT901-L SERIES

POWER RELAY



File No.:E75887



File No.:R 50390114



Patent No.:201120133518.4



FEATURES

- Large switch capacity up to 40A
- Green Energy Saving
- 4kV Type: 4000VAC high dielectric strength (between contacts and coil)

CONTACT RATINGS

Contact Arrangement	1A
Contact Resistance	≤50mΩ (1A 24VDC)
Contact Material	AgSnO
Contact Rating(Resistive)	40A/277VAC, 30A/28VDC
Max. Switching Voltage	277VAC/28VDC
Max. Switching Current	40A
Max. Switching Power	11080VA/840W
Mechanical Life	1×10 ⁷ operations
Electrical Life	See more details at "safety approval ratings"

ORDERING INFORMATION

Model	HAT	F	901	A	S	DC12	- 4K	- L	- XXXX
F:Class F									
Blank:Class B									
901:PCB Pins Only									
A:SPST-NO									
S:Sealed Type									
E:Flux Tight Type									
Coil Voltage									
4K:4kV Breakdown Voltage									
L:Latching LR=Reverse Polarity									
Customer Code									

Notes:

1. PC board assembled with dust cover type and flux tight type relays can not be washed and/or coated.
2. Dust cover type and flux tight type relays can not be used in the environment with dust, or H₂S, SO₂, NO₂ or similar gaseous environment etc.
3. This relay do not have pin 6.

CHARACTERISTICS

Insulation Resistance		1000MΩ (at 500VDC)
Dielectric Strength	Between coil & contacts	2000/2500/4000VAC 1min
	Between open contacts	1500VAC 1min
Reacting time (at nomi. volt.)		≤15ms
Resetting time (at nomi. volt.)		≤10ms
Humidity		98% RH
Operation temperature		-40°C~+85°C
UL Class B/F		Insulation System Class B/F
Shock Resistance	Functional	29.4m/s ²
	Destructive	980m/s ²
Vibration resistance		10Hz to 55Hz 1.5mm DA
Unit weight		Approx. 26g
Construction		Sealed Type, Flux Tight Type

Notes: The data shown above are initial values.

COIL DATA

at 25°C

Nominal Voltage VDC	Action/Reset Voltage VDC	*Impulse Width ms	Coil Resistance Ω±10%
5	4.0	≥30	21
6	4.8	≥30	30
9	7.2	≥30	67.5
12	9.6	≥30	120
24	19.2	≥30	480
48	38.4	≥30	1920

* For the Set time/Reset time it is recommended to use a minimum 30 ms pulse duration for the nominal coil voltage to compensate for varying ambient temperature and relay aging.

This datasheet is for customers' reference. All the specifications are subject to change without notice.



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RELAYS

HAT901-L SERIES

POWER RELAY

COIL

Coil Power	1200mW
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SAFETY APPROVAL RATINGS

UL&CUL	N.O.:30A 28VDC, 6×10^3 OPS N.O.:40A 277VAC, G.P., 6×10^3 OPS N.O.:40A 305VAC, G.P., 6×10^3 OPS N.O.:1HP 120VAC, 6×10^3 OPS N.O.:2HP 277VAC, 6×10^3 OPS N.O.:20A 277VAC Ballast, 6×10^3 OPS N.O.:30A 120VAC Ballast, 6×10^3 OPS N.O.:10A 277VAC, Electronic Ballast, 6×10^3 OPS N.O.:15A 120VAC Tungsten, 6×10^3 OPS N.O.:TV8 277VAC
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TüV	N.O.:40A/277VAC, 30A/28VDC, 3×10^4 OPS
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NOTES:

1. All values without specified temperature are at 25°C.
2. The above lists the typical loads only. Other loads may be available upon request.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch (mm)

Outline Dimensions	Wiring Diagram (Bottom view)	PCB Layout (Bottom view)
Unless otherwise specified tolerances are:		
≤1mm	> 1mm and ≤5mm	> 5mm
±0.2mm	±0.3mm	±0.4mm

* The tolerance without indicating for PCB layout is always ±0.1mm.

Notice:

1. Relay is on the "reset" or "set" status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to "set" or "reset" status, therefore, when application (connecting the power supply), please reset the relay to "set" or "reset" status as required.
2. Do not energize voltage to "set" coil and "reset" coil simultaneously. Long energized time (more than 1 min) should be avoided.

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PACKAGING SPECIFICATION

TUBE	OUTER CARTON	OUTER CARTON SIZE
20PCS	500PCS	L590mm*W205mm*H175mm

APPLICATION GUIDELINES

Automatic Wave Soldering

- * Wave solder is the optimum method for soldering.
- * Adjust the level of solder so that it does not overflow onto the top of the PC board.
- * Unless otherwise specified, solder under the following conditions depending on the type of relay.

Preheat time 20°C-100°C	Rising slope 20°C-120°C	Decreasing slope Peak-150°C	Soldering temperature 255°C-265°C
90±5 seconds	<3°C/s	<4°C/s	3~5s

Hand Soldering

- * Keep the tip of the soldering iron clean.

Solder Iron	30W or 60W
Iron Tip Temperature	Approx. 350°C 662°F
Solder Time	Within approx. 3 seconds

- * Immediate air cooling is recommended to prevent deterioration of the relay and surrounding parts due to soldering heat.
- * Although the sealed type relay can be cleaned, avoid immersing the relay into cold liquid (such as washing solvent) immediately after soldering. Doing so may deteriorate the sealing performance.

Discard the dropped product

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